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Multi-carrier telecommunication system with power reduction means

Inventor: VANZIELEGHEM ETIENNE [BE] ; DEFOORT FRANK CYRIEL MICHEL [BE] (+1)

Applicant: ALSTHOM CGE ALCATEL [FR]

EC: H04L27/26M2; H04L27/26M3; (+2)

IPC: *H04L27/26;* H04L27/26; (IPC1-7): H04L27/26

Publication info: EP0883269 (A1) — 1998-12-09

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Inventor(s): VANZIELEGHEM ETIENNE [BE]; DEFOORT FRANK CYRIEL MICHEL [BE]; REUSENS PETER PAUL FRANS [BE]

Applicant(s): ALSTHOM CGE ALCATEL [FR]

Classification:

- **international:** **H04L27/26; H04L27/26;** (IPC1-7): H04L27/26

- **European:** H04L27/26M2; H04L27/26M3; H04L27/26M5C1; H04L27/26M5C3

Application number: EP19970401210 19970602

Priority number(s): EP19970401210 19970602

Also published as:

EP0883269 (B1)
IL124552 (A)
ES2224211 (T3)
DE69730951 (T2)
CA2237091 (A1)

Cited documents:

EP0753947 (A1)
EP0753948 (A1)
US5610945 (A)

Abstract of **EP 0883269 (A1)**

A telecommunication transmitter (TU) for a multi-carrier transmission system of the Digital Subscriber Line ADSLÜ type and which includes a coding circuit (MMC) able to generate "symbols" derived from carriers (C1-Cn) modulated by incoming data, and a line driver circuit (LDC) to amplify these symbols. When idle data are received, the power dissipated in the transmitter is reduced because the symbols are then merely derived from a few or even a single carrier (the "pilot tone") instead as from all the available carriers. The power dissipated is even more reduced because the line driver circuit comprises the parallel connection of a high voltage but low efficiency (LL) and a lower voltage but higher performant (LH) line amplifier. The higher performant, and thus less power consuming, amplifier (LH) is used when idle data are received at the input (IN).; In a variant, there is only one line amplifier of which the quiescent current is controlled in function of the data traffic. In another variant, the number of carriers used by the coding circuit (MMC) is a function of the mean traffic of effective data received.

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...... What is the minimum **transmit power level** with power control? ...... the size of the
data symbol alphabet (4),. B the user bandwidth ...
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Data apparatus for maintaining analog line signal during a data ...

5745522, Randomizer for byte-wise **scrambling** of **data**, Heegard, 380/46 ..... This rotation has the property that it preserves the **power level** of the ... symbols using a suitable pseudo-random algorithm operating on the **symbol alphabet**. ...
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Here, we apply short **scrambling** codes with length being equal to that of one .... of the maximum-likelihood detector [1] if the **symbol alphabet** is not restricted ..... If we compare the absolute **power level** of **data** and voice users (Fig. ...
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A Framework for Determining Realistic Capacity Bounds for ...

Future wireless systems are required to provide high **data** ... is the **power level** with which a terminal shall be .... where A denotes the **symbol alphabet** with E ... sity) which applies **scrambling** to average-out the interference ...
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by P Marsch - 2006 - Cited by 14 - Related articles

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employing long **scrambling** code is presented and compared to known ones. These
receivers equalize the channel and, thus, ... ment to enhance the downlink **data** rates
beyond 10 Mbps. The .... is **symbol alphabet**) contains the transmitted symbols. Noise ....
channels can be assumed to be smaller than the **power level** ...
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Pilot pollution interference cancellation in CDMA systems

nificant **power level** contributes to the pilot pollution interference. Consequently, the serving
BS increases its power ..... will be multiplied by the **scrambling** codes for those .... encoder,
M is the size of the **data symbol alphabet** ...
doi.wiley.com/10.1002/wcm.154 - Similar pages -
by MM El-Said - 2003 - Cited by 1 - Related articles - All 2 versions

Data apparatus for maintaining analog line signal during a data ...

property that it preserves the **power level** of the individual symbols but randomizes the
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for synchronization, channel estimation, and **data** detection in ... coding the broadcast
channel (BCH) **data**, and estimating the **power level** for each detected BS. .... tions yields
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complex **symbol alphabet** set. Y i complex symbols from **data** alphabet i = 1... I ...... With
the **scrambling** it would not matter if the ...... a transmitted **power level** E g . This is a trust-
region-subproblem as occurs in nonlinear opti- ...
www.ee.ed.ac.uk/~sg/Research/thesis.pdf - Similar pages -
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[PDF] THESE Doctorat d'Electronique Thomas SÄLZER Transmission ...
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different **scrambling** codes in the cells, which considerably facilitates the cell planning
task ...... the pilot positions cannot be used for **data** transmission and they consume .....
Symbol alphabet. QPSK. Channel coding not considered. ...... 'Method of allocating
transmission **power level** to pilot symbols used for ...
www.inue.uni-stuttgart.de/publications/pub_2004/saelzer_dissertation.pdf -
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Forward and reverse link capacity determination Number:7466682 ...
The Walsh codes are used to identify a **data symbol alphabet**, ... In particular, the forward
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operating logic stored in the memory to modulate a predefined base **data** signal .....
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operating logic stored in the memory to modulate a predefined base **data** signal ..... for
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Wireless Communication Technologies New Multimedia Systems
spacetime high **data** transfer using wireless communication ..... receivers) over which the
mean **power level** of the channel is undisturbed by large-scale ...... as is the modulation
symbol alphabet, is the received amplitude of user k in ...... The **scramble** codes used in
276 WIRELESS TECHNOLOGIES FOR THE 21ST CENTURY ...
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[PDF] Interference Analysis and Reduction for Wireless Systems
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discussed in this section, wireless **data** systems and WLANs are also very ...... is based on
scrambling each OFDM symbol with different **scrambling** sequences and selecting
the ...... In either case, the **power level** directly affects the C/I. For this case, an ......

restricting it to the transmit **symbol alphabet**. ...
cict.inatel.br/nova2/docentes/dayan/Electronic_Library/e.../Interference%20Analysis%20%
20and%20Reduction%20for%... - Similar pages -

[PDF] ON MIMO SYSTEMS AND ADAPTIVE ARRAYS FOR WIRELESS
COMMUNICATION ...
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data throughput or to decrease the transmission power. ...... orthogonal **scrambling** codes,
to obtain the property in (2.56), and then be trans- ...... If a **symbol alphabet** with non-equal
powered symbols are used, such as 64QAM, ... The results in the previous section
showed that the IMD **power level** is dependent ...
www.diva-portal.org/diva/getDocument?urn_nbn_se_uu_diva-2604-1__fulltext.pdf -
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by M Wennstrom - 2002 - Cited by 8 - Related articles

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A system for bidirectional communication of digital **data** between a central unit and a ... the
same **power level** also helps to minimize mutual interference. ...
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Apparatus and method for SCDMA digital **data** transmission using ...
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eBook-turbo and Trellis Coding
random signals-detection estimation and **data** analysis k. san shanmugan a. breipohl ......
MULTIPLE ANTENNA CHANNELS (MIMO CHANNELS) 45 **Power level**: Difference m –
N0 ...... since such a T (D) will simply **scramble** the input sequences {u(D)}, ... and it is
mapped into symbols from an M = 2m -ary **symbol alphabet** X ...
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interleaver is often employed to **scramble** the transmitted signal in the time-domain so
that .... The designed system can also allow for multiple **data** rates, ...
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20Wireless%20Communication... - Similar pages - ⚙

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where A is the **symbol alphabet**. An example of eye diagram is shown in Fig. ..... An

example of the specified **power level** limits is given in Fig. **......** to account for the various
signal **scrambling** and spreading operations. **...**
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   Choi, K.; Kang, K.; Kim, S.;
   Communications, IEE Proceedings-
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   Digital Object Identifier 10.1049/ip-com:20040407
   AbstractPlus | Full Text: PDF(274 KB) IEE JNL

2. **Peak power reduction scheme based on subcarrier scrambling for MC-C**
   Kwonhue Choi; Kunseok Kang; Sooyoung Kim;
   Spread Spectrum Techniques and Applications, 2004 IEEE Eighth Internation
   30 Aug.-2 Sept. 2004 Page(s):325 - 329
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3. **Experiments on three-step fast cell search algorithm employing commo**
   OFCDM broadband packet wireless access in forward link
   Tanno, M.; Higuchi, K.; Atarashi, H.; Sawahashi, M.;
   Vehicular Technology Conference, 2004. VTC2004-Fall. 2004 IEEE 60th
   Volume 2, 26-29 Sept. 2004 Page(s):968 - 973 Vol. 2
   Digital Object Identifier 10.1109/VETECF.2004.1400165
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   Saito, M.; Okuda, A.; Okada, M.; Yamamoto, H.;
   Personal, Indoor and Mobile Radio Communications, 2005. PIMRC 2005. IEE
   Symposium on
   Volume 1, 11-14 Sept. 2005 Page(s):286 - 290
   Digital Object Identifier 10.1109/PIMRC.2005.1651444
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1. ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION
   JOHANSSON, Magnus (UPZIDE LABS AB), *PATENT COOPERATI*
   Sep 2004
   patno:WO04082230
   ...**alphabet** M, **scrambling** a bit stream...predefined **symbol alph**
   defined...transmit **power level** of the dummy **data** is substantially
   the user **data**. The method...from the **symbol alphabet** Q in sync
   scrambling the received...means for **scrambling** the bit stream..
   alphabet Q is defined...transmit **power level** of the dummy **data**
   Full text available at patent office. For more in-depth search
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2. Arrangements and methods for a digital communication system
   Johansson, Magnus, *UNITED STATES PATENT AND TRADEMARK*
   PUBLICATION, Nov 2006
   patno:US20060262873
   ...transmitter has to fill the **data** channel with dummy **data**. The s
   power level on the channel is approximately...constant regardless
   data...is the size of the **symbol alphabet** which is equal to the
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3. ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION
   JOHANSSON, Magnus (UpZide Labs AB), *EUROPEAN PATENT, D*
   patno:EP1604500
   ...**alphabet** M, **scrambling** a bit stream...predefined **symbol alph**
   defined...transmit **power level** of the dummy **data** is substantially
   the user **data**. [0013]The...from the **symbol alphabet** Q in synch
   scrambling the received...means for **scrambling** the bit stream..
   alphabet Q is defined...transmit **power level** of the dummy **data**
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4. Transmitter based techniques for ISI and MAI mitigation in CDMA-
   Georgoulis, Stamatis L, Jun 2003
   ...aim to provide enhanced voice, text and **data** services to the use
   give...aim to provide enhanced voice, text and **data** services to the
   give...25 2.2.4 **Scrambling**...35 2.15 Problem of **data** detection...
   [http://hdl.handle.net/1842/1372]
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5. On MIMO Systems and Adaptive Arrays for Wireless Communicatio
   Aspects
   Wennström, Mattias, Sep 2002
   This thesis is concerned with the use of multiple antenna elements
   over frequency non-selective radio channels. Both measurement re
   analysis are presented. New transmit strategies are derived and co
   Full text thesis available via NDLTD (DiVA at Uppsala Univer
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6. Multi-pair gigabit ethernet transceiver having decision feedback equ
   Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
   Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST*
   TRADEMARK OFFICE GRANTED PATENT, Nov 2008
   patno:US7453935
   ...shown in FIG. 2) and passes the digital **data** to the transmit sect

and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
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7. Multi-pair gigabit ethernet transceiver
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry**, *UNITED STATES PATENT AND TRADEM
PUBLICATION*, Jun 2008
patno:US20080151988
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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8. Graphics Accelerator
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry**, *UNITED STATES PATENT AND TRADEM
PUBLICATION*, Feb 2008
patno:US20080049826
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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9. Initial Propagation Models [PDF-983K]
Oct 2005
FLOWS Deliverable Number: D4 Page 1 IST-2001-32125 FLOWS D
Initial Propagation Models Contractual Date of Delivery to the CEC:
of Delivery to the CEC: 31st May 2002 Author(s): Filipe D. Cardoso
[http://www.elec.york.ac.uk/comms/projects/flows/delive...]
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10. EURESCOM, P921, PIR 3.1 [Word-2MB]
Jul 2000
...Convolutional Code PCH Paging CHannel PDU Protocol **Data** Unit
PHYsical layer...Dedicated Control CHannel SDU Service **Data** Unit
System Frame...SystemsU- User- UDD Unconstrained Delay **Data**
Uplink (Reverse link...32 5.3.3 Channelisation codes 33 5.3.4 Scra
CDMA uplink 34 5.4.1 Frame...
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www.MENTiSoftware.com

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scrambling data "symbol alphabet" "power, [Search]

ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION SYSTEM

Publication number: WO2004082230 (A1)

Publication date: 2004-09-23

Inventor(s): JOHANSSON MAGNUS [SE]

Applicant(s): UPZIDE LABS AB [SE]; JOHANSSON MAGNUS [SE]

Classification:

- **International:** ***H04L25/03; H04L27/34; H04L25/03; H04L27/34;*** (IPC1-7): H04L25/03; H04L27/26

- **European:** H04L25/03E3; H04L27/34C1

Application number: WO2004SE00363 20040312

Priority number(s): SE20030000695 20030314; US20030454309P 20030314

Also published as:

EP1604500 (A1)
EP1604500 (B1)
AT379909 (T)
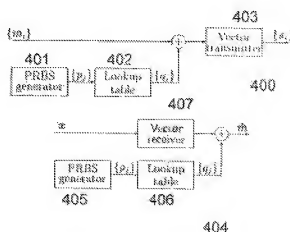
Cited documents:

EP1128623 (A1)
WO0176118 (A2)
EP1199858 (A2)
EP1248426 (A2)
US2002196861 (A1)

Abstract of **WO 2004082230 (A1)**

The present invention relates to methods, computer program products, a transmitter, a receiver and a transceiver comprising said transmitter and said receiver in a digital communication system for reducing the transmit power level when there is no user data is to send, i.e. when dummy data is sent instead. That is achieved by defining a symbol alphabet Q and scrambling a bit stream comprising user data and dummy data with randomly generated symbols from the symbol alphabet Q.

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- decoder
- decoding
- transceiver
- clock signal
- phase error
- pulse shaping
- equalizer
- gain stage
- adaptive filter
- integrated circuit

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☐ **11.** Multi-pair gigabit ethernet transceiver
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry** (Broadcom Corporation), *UNITED ST
TRADEMARK OFFICE GRANTED PATENT*, Dec 2007
patno:US7305029
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
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☐ **12.** MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER HAVING A SINGLE:
FEEDBACK EQUALIZER
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry**, *UNITED STATES PATENT AND TRADEM,
PUBLICATION*, Oct 2007
patno:US20070242739
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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☐ **13.** Ethernet transceiver with single-state decision feedback equalizer
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu
E. / Abnous, Arthur** (Broadcom Corporation), *UNITED STATES
OFFICE GRANTED PATENT*, Aug 2007
patno:US7263134
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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☐ **14.** MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER HAVING ADAPTIVE
ELEMENTS
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry**, *UNITED STATES PATENT AND TRADEM,
PUBLICATION*, Aug 2007
patno:US20070183540
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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☐ **15.** MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER HAVING DECISION
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry**, *UNITED STATES PATENT AND TRADEM,
PUBLICATION*, Aug 2007
patno:US20070195875

...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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16. TELECOMMUNICATIONS SYSTEMS ENGN3214 Gerard G Borg Brick
Apr 2006
TELECOMMUNICATIONS SYSTEMS ENGN3214 Gerard G Borg Brick
Engineering Faculty of Engineering and Information Technology Au
Canberra, ACT 0200, Australia 2006 1 Modulation Schemes 1.1 Wh
for transmission?
[http://engnet.anu.edu.au/DEcourses/engn3214/documents/...]
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17. Effective capacity evaluation of advanced wideband CDMA and UWI
Nov 2006
...cc control channel spreading code cd **data** channel spreading co
part...quadrature channel over symbol interval n cs **scrambling** c
code c0 propagation slope constant before...generic K-element vec
symbols d NbK-element vector of **data**...
[http://herkules.oulu.fi/isbn9514282701/isbn9514282701....]
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18. Multi-pair gigabit ethernet transceiver having adaptive disabling of
Agazzi, Oscar E. / **Creigh, John L.** / **Hatamian, Mehdi** / **Kruse
Arthur** / **Samueli, Henry (Broadcom Corporation)**, *UNITED S1
TRADEMARK OFFICE GRANTED PATENT*, Mar 2007
patno:US7197069
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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19. Multi-Pair Gigabit Ethernet Transceiver having decision feedback ec
Agazzi, Oscar E. / **Creigh, John L.** / **Hatamian, Mehdi** / **Samu
E.** / **Abnous, Arthur (Broadcom Corporation)**, *UNITED STATES
OFFICE GRANTED PATENT*, Mar 2007
patno:US7194028
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
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20. Multi-pair gigabit ethernet transceiver having adaptive disabling or
Agazzi, Oscar E. / **Creigh, John L.** / **Hatamian, Mehdi** / **Kruse
Arthur** / **Samueli, Henry (Broadcom Corporation)**, *UNITED S1
TRADEMARK OFFICE GRANTED PATENT*, Mar 2007
patno:US7194029
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
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- decoding
- transceiver
- clock signal
- phase error
- pulse shaping
- equalizer
- gain stage
- adaptive filter
- integrated circuit

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☐ 21. DECISION-FEEDBACK DECODING METHOD AND SYSTEM
AGAZZI, Oscar, E. / CREIGH, John, L. / HATAMIAN, Mehdi / ABNOUS, Arthur / SAMUELI, Henry (Broadcom Corporation)
2001
patno: EP1129553
...communication transceivers, even though the **data** rate on any o
250...primary necessity of accommodating high **data** rates with a s
signal...representing the five levels of a PAM-5 **symbol alphabet**,
25 pre-computed...
Full text available at patent office. For more in-depth search
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☐ 22. Systems and methods for communicating spread spectrum signals
constellations
Dent, Paul W. (Ericsson Inc.), *UNITED STATES PATENT AND TR*
PATENT, Aug 2005
patno: US6934317
...Likewise it is also possible to map the **data** pattern to a different
approximately half...modulo-2 addition of one bit of a QPSK **scram**
the bits and rotations...addition of the other bit of the QPSK **scram**
of the bits. It...and after combination with the 16-PSK **data** symbo
case...
Full text available at patent office. For more in-depth search
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☐ 23. Authentication using a digital watermark
Rhoads, Geoffrey B., *UNITED STATES PATENT AND TRADEMARK*
PUBLICATION, Feb 2004
patno: US20040022444
...systems. The first (termed, for lack of a better name, a "batch er
identification coding to an existing **data** signal. The second (terme
a "real time encoding" system), applies identification coding to a si
Full text available at patent office. For more in-depth search
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☐ 24. Multi-pair gigabit ethernet transceiver
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu
E. / Abnous, Arthur**, *UNITED STATES PATENT AND TRADEMARK*
PUBLICATION, Feb 2005
patno: US20050036576
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC block
204T to the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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☐ 25. Multi-pair gigabit ethernet transceiver
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu
E. / Abnous, Arthur (Broadcom Corporation)**, *UNITED STATES*
OFFICE GRANTED PATENT, Aug 2004
patno: US6778602
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T to the PCS block 204 performs **scrambling** and coding of the

functions. Transmit...

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☐ **26.** Multi-pair gigabit ethernet transceiver
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry,** *UNITED STATES PATENT AND TRADEM*
PUBLICATION, Aug 2004
patno:US20040156461
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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☐ **27.** Multi-pair gigabit ethernet transceiver
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry (Broadcom Corporation),** *UNITED ST*
TRADEMARK OFFICE GRANTED PATENT, Aug 2004
patno:US6771725
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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☐ **28.** Multi-pair gigabit ethernet transceiver
**Agazzi, Oacar E. / Creigh, John L. / Hatamlan, Mehdi / Kruse
Arthur / Samueli, Henry,** *UNITED STATES PATENT AND TRADEM*
PUBLICATION, May 2004
patno:US20040091038
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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☐ **29.** Multi-pair gigabit ethernet transceiver having adaptive disabling of
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu
E. / Abnous, Arthur (Broadcom Corp.),** *UNITED STATES PATEN*
GRANTED PATENT, May 2004
patno:US6731691
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
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☐ **30.** Multi-pair gigabit ethernet transceiver
**Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu
E. / Abnous, Arthur,** *UNITED STATES PATENT AND TRADEMARK*
PUBLICATION, Apr 2004
patno:US20040071242
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
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- decoder
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☐ **31.** Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Apr 2004
patno:US20040071243
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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☐ **32.** MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER
AGAZZI, Oscar E. / CREIGH, John L. / HATAMIAN, Mehdi / K ABNOUS, Arthur / SAMUELI, Henry (BROADCOM CORPORATI Oscar E. ; CREIGH, John, L. ; HATAMIAN, Mehdi ; KRUSE, Da Arthur ; SAMUELI, Henry), *PATENT COOPERATION TREATY APPL*
patno:WO00028691
...communication transceivers, even though the **data** rate on any c is"only"250Mbps...primary necessity of accommodating high **data** of signal...representing the five levels of a PAM-5 **symbol alphabe** of 25 pre-computed...
Full text available at patent office. For more in-depth search similar results

☐ **33.** Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Jan 2003
patno:US20030007581
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
Full text available at patent office. For more in-depth search similar results

☐ **34.** Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur, *UNITED STATES PATENT AND TRADEMARK PUBLICATION*, Jan 2003
patno:US20030002575
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
Full text available at patent office. For more in-depth search similar results

☐ **35.** Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE GRANTED PATENT*, Nov 2002
patno:US6477200
...shown in FIG. 2) and passes the digital **data** to the transmit sect

and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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36. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry (Broadcom Corporation), *UNITED STA*
TRADEMARK OFFICE GRANTED PATENT, Oct 2002
patno:US6459746
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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37. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu
E. / Abnous, Arthur, *UNITED STATES PATENT AND TRADEMARK*
PUBLICATION, Sep 2002
patno:US20020122479
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
functions. Transmit...
Full text available at patent office. For more in-depth search
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38. System and method for communication using noise
Pickering, Leslie W. / Aaron, Jeffrey A. (Georgia Tech Resea
STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jun
patno:US6408019
...local interface such as, for example, a **data** bus 116. Although th
shown...the A/D converter 129 available on the **data** bus 116. Note
possible...comprises four binary digits, then the **symbol alphabet**
symbols to represent...
Full text available at patent office. For more in-depth search
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39. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse
Arthur / Samueli, Henry (Broadcom Corporation), *UNITED STA*
TRADEMARK OFFICE PRE-GRANT PUBLICATION, Dec 2001
patno:US20010055331
...shown in FIG. 2) and passes the digital **data** to the transmit sect
and is provided to ensure proper **data** transfer from the MAC layer
204T of the PCS block 204 performs **scrambling** and coding of the
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10549449, filed 07/19/2006
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claims foreign priority to 60454309, filed 03/14/2003
claims foreign priority to 03006954, filed 03/14/2003

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60454309	03/14/2003	UNITED STATES OF AMERICA

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Assignments
Filing or 371(c) Date: **07/19/2006** eDan
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Application Received: **09/14/2005**
Pat. Num./Pub. Num: /20060262873
Issue Date: **00/00/0000**
Date of Abandonment: **00/00/0000**
Attorney Docket Number: **1505-1028-1**
Status: **30 /DOCKETED NEW CASE - READY FOR EXAMINATION**
Confirmation Number: **5502**
Title of Invention: **ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION SYSTEM**

Examiner Number: **80488 / TORRES, JUAN**
Group Art Unit: **2611**   IFW Madras
Class/Subclass: **375/269.000**
Lost Case: **NO**
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Unmatched Petition: **NO**
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Third Level Review: **NO**   Secrecy Order: **NO**
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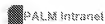
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Inventor Information for 10/549449

Inventor Name	City	State/Country
JOHANSSON, MAGNUS	LULEA	SWEDEN

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Last Name = JOHANSSON
First Name = MAGNUS

Application#	Patent#	Status	Date Filed	Title	Inventor Name
06400116	4536004	150	07/19/1982	MOVABLE FOOT-STEP FOR A VEHICLE	JOHANSSON, MAGNUS
08553540	5649040	150	06/21/1996	SPLICING AGED OPTICAL FIBERS	JOHANSSON, MAGNUS
09147229	6625112	150	03/11/1999	SYNCHRONISATION	JOHANSSON, MAGNUS
09147230	6751261	150	02/09/1999	SYNCHRONISATION	JOHANSSON, MAGNUS
09147742	6438174	150	06/04/1999	MULTI-CARRIER TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09147743	6456649	150	08/30/1999	MULTI-CARRIER TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09147744	6320903	150	06/07/1999	MULTI-CARRIER TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09147745	6538986	150	06/01/1999	CONTROL CHANNELS FOR TELECOMMUNICATIONS TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
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09426105	6470472	150	10/22/1999	ARRANGEMENTS AND METHOD RELATING TO TRANSMISSION OF DIGITAL DATA	JOHANSSON, MAGNUS
09446120	6731707	150	08/24/2000	ARRANGEMENT FOR SYNCHRONIZATION OF NODES IN VDSL-SYSTEMS	JOHANSSON, MAGNUS
09446357	7023907	150	03/09/2000	VDSL MODEM DIVIDED INTO A DIGITAL AND AN ANALOG PART	JOHANSSON, MAGNUS
09529427	7039020	150	11/01/2000	NEAR-ECHO SUPPRESSION	JOHANSSON, MAGNUS
09529429	Not Issued	161	10/30/2000	Digital transmission system and method using FDD and OFDD	JOHANSSON, MAGNUS
09530947	6738440	150	12/27/2000	SUBSCRIBER LINE TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09555816	Not Issued	124	10/10/2000	Data scramblers	JOHANSSON, MAGNUS
09582637	7239687	150	10/20/2000	TELECOMMUNICATIONS	JOHANSSON, MAGNUS
09622523	7113549	150	12/07/2000	IMPROVEMENTS IN, OR RELATING TO, VDSL	JOHANSSON, MAGNUS
09647666	Not Issued	161	09/29/2000	Method and arrangement for reducing cyclo-stationary cross-talk noise	JOHANSSON, MAGNUS
09700617	7079610	150	03/22/2001	TELECOMMUNICATIONS TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09700888	6606047	150	11/20/2000	METHODS AND APPARATUS FOR ESTIMATING CLIPPED SAMPLES DURING ANALOG TO DIGITAL CONVERSION	JOHANSSON, MAGNUS
09702891	6543205	150	11/01/2000	FORM AND SEAL UNIT FOR A MACHINE FOR PACKAGING POURABLE FOOD PRODUCTS	JOHANSSON, MAGNUS
09772944	6690953	150	01/31/2001	CALIBRATION METHOD FOR AN ADAPTIVE ANTENNA SYSTEM	JOHANSSON, MAGNUS
09856438	7050489	150	05/21/2001	VDSL TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09857498	6582947	150	06/19/2001	MEDICAL USE OF GENE AND VECTOR ENCODING A MULTISUBSTRATE DEOXYRIBONUCLEOSIDE	JOHANSSON, MAGNUS

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09914032	6460685	150	02/12/2002	CONVEYOR FOR GARMENT HANGERS	JOHANSSON, MAGNUS
10312393	6739822	150	12/26/2002	TRACTION VEHICLE FOR AIRCRAFT AND ENGAGEMENT AND HOISTING DEVICE THEREFOR	JOHANSSON, MAGNUS
10476897	Not Issued	164	05/10/2004	PYRIDINONE AND RELATED HETEROCYCLIC DERIVATIVES	JOHANSSON, MAGNUS
10549449	Not Issued	30	07/19/2006	Arrangements and methods for a digital communication system	JOHANSSON, MAGNUS
11149659	Not Issued	160	06/10/2005	Method and arrangement for reducing cyclo-stationary cross-talk noise	JOHANSSON, MAGNUS
11436014	7526021	150	05/17/2006	TELECOMMUNICATIONS TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
11928490	Not Issued	30	10/30/2007	FRAMEWORK FOR AUTOMATIC GENERATION OF SEQUENCE OF OPERATIONS	JOHANSSON, MAGNUS
11928542	Not Issued	30	10/30/2007	PROCESS FOR GENERATING CONTROL SEQUENCE OF OPERATIONS	JOHANSSON, MAGNUS
12111397	Not Issued	30	04/29/2008	ENGINE TORQUE CONTROL WITH DESIRED STATE ESTIMATION	JOHANSSON, MAGNUS
60454309	Not Issued	159	03/14/2003	Arrangements and methods for a digital communication system	JOHANSSON, MAGNUS
61025896	Not Issued	159	02/04/2008	Method and Arrangement in a Telecommunication System	JOHANSSON, MAGNUS
60983297	Not Issued	159	10/29/2007	METHOD AND ARRANGEMENT IN A TELECOMMUNICATIONS SYSTEMS	JOHANSSON, MAGNUS B.
60984890	Not Issued	159	11/02/2007	ENGINE TORQUE CONTROL WITH DESIRED STATE ESTIMATION	JOHANSSON, MAGNUS CG

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